

1. An apparatus for estimating a data block size, the apparatus comprising:
 - a communications module configured to communicate with a data buffer and a computer;
 - a register module configured to store a data block size record; and
 - a logic module in communication with the communications module and the register module, the logic module configured to query the size of a data block, and set the data block size record equal to the greater of a queried data block size and a current data block size record, the logic module further configured to generate a data block size estimate proportional to the data block size record.
2. The apparatus of claim 1, wherein the logic module is also configured to query the data block size of a buffer data block in the data buffer.
3. The apparatus of claim 1, wherein the logic module is also configured to query the data block size of a memory data block in the computer.
4. The apparatus of claim 1, wherein the data block size estimate is equivalent to the data block size record.
5. The apparatus of claim 1, wherein the data block size estimate is greater than the data block size record.

6. An apparatus for generating a data block size estimate, the apparatus comprising:

a data buffer configured to store a data block and a data block size record;

and

a block estimator module configured to set the data block size record equal to the greater of a data block size and a current data block size record, the block estimator module further configured to communicate a data block size estimate proportional to the data block size record.

7. The apparatus of claim 6, wherein the data block size estimate is equal to the data block size record.

8. The apparatus of claim 6, wherein the data block size estimate is greater than the data block size record.

9. An apparatus for allocating memory for recovering a data block, the apparatus comprising:

means for storing a data block;

means for querying the size of a data block disposed in the means for storing; and

means for calculating a data block size estimate proportional to the size of the queried data block.

10. The apparatus of claim 9, wherein the means for calculating is further configured to calculate the data block size estimate as the size of the largest data block in the means for storing.

11. The apparatus of claim 9, wherein the means for calculating is further configured to calculate the data block size estimate as the size of the last data block written to the means for storing.

12. A system for allocating memory for recovering data, the system comprising:
a data buffer configured to store a buffer data block;
a memory module configured to recover the buffer data block; and
a block estimator module configured to calculate a data block size estimate of a size of the buffer data block, the block estimator module further configured to reserve an allocated memory space in the memory module to receive the buffer data block.

13. The system of claim 12, wherein the data block size estimate is equal to the size of a data block queued to be written to the data buffer.

14. The system of claim 12, wherein the data block size estimate is equal to the size of the largest buffer data block in the data buffer.

15. The system of claim 12, wherein the data block size estimate is equal to the size of the largest memory data block in the memory module.

16. The system of claim 12, wherein the block estimator module is configured to reserve the allocated memory space with a size equal to the data block size estimate.

17. The system of claim 12, wherein the block estimator module is configured to reserve the allocated memory space with a size greater than the data block size estimate.

18. A process for estimating data block size, the method comprising:
 - querying a size of a data block; and
 - creating a data block size estimate proportional to the size of the data block.
19. The process of claim 18, wherein the data block is disposed in a memory module.
20. The process of claim 18, wherein the data block is disposed in a data buffer.
21. The process of claim 18, further comprising querying the size of a data block queued to be written to a destination node.
22. The process of claim 18, further comprising recording the size of the largest data block in the data buffer.
23. A computer readable storage medium comprising computer readable code configured to carry out a process of estimating the size of a data block, the process comprising:
 - querying a size of a data block; and
 - calculating a data block size estimate proportional to the size of the data block.
24. The computer readable storage medium of claim 23, wherein the data block is disposed in a data buffer.
25. The computer readable storage medium of claim 23, wherein the data block is disposed in a memory module.

26. The computer readable storage medium of claim 23, wherein the data block is queued to be written to the data buffer.
27. The computer readable storage medium of claim 23, wherein the data block size estimate is equal to the queried data block size.
28. The computer readable storage medium of claim 23, wherein comprising the data block size estimate is greater than the queried data block size.